Forestland Interpretations

Forestland interpretations are important to good management. The management of trees begins with an understanding of the soil where they grow or are to be grown. Some soils are very suitable for growing wood crops; others barely support tree cover. Different tree species may vary in production on the same soil.

Forestland interpretations should be used to assist land users in planning, installing, and maintaining forestland management systems.

Forest Management and Productivity

The Forestland Management and Productivity tables presents information about suitable for producing timber for each soil map unit. Management concerns, which include hazard of erosion, equipment use, seedling mortality, and windthrow hazard, are listed by ratings of SLIGHT, MODERATE, or SEVERE. Information on potential productivity includes plant competition, common trees, site index, productivity class, and trees to plant.

Management Concerns

EROSION HAZARD - the risk of erosion is slight if the expected soil loss is small; moderate if some measures are needed to control erosion during logging; and severe if intensive management or special equipment and methods are needed to prevent excessive loss of soil.

EQUIPMENT LIMITATION - A rating of slight indicates that use of equipment is not limited to a particular kind of equipment or time of year; moderate indicates a short seasonal limitation, or a need for some modification in management of equipment; and severe indicates a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

SEEDLING MORTALITY - The ratings are for seedlings from a good planting stock that are properly planted during a period of sufficient rainfall. A rating of slight indicates that the expected mortality of the planted seedlings is less than 25 percent; moderate - 25 to 50 percent; and severe - more than 50 percent.

WINDTHROW HAZARD - A rating of slight indicates that trees in wooded areas are not expected to be blown down by commonly occurring winds; moderate - that some trees are blown down during periods of excessive soil wetness and strong winds; and severe that many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

PLANT COMPETITION - A rating of slight indicates little or no competition from other plants; moderate indicates that plant competition is expected to hinder the development of the fully stocked stand of desirable trees; and severe means that plant

competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

POTENTIAL PRODUCTIVITY - This is discussed under the ordination class symbol.

COMMON TREES - Trees that generally occur on the soil are listed regardless of economic importance.

SITE INDEX AND PRODUCTIVITY CLASS - These are discussed under ordination class symbol.

TREES TO PLANT - Trees that are suitable for commercial wood production and that are adapted to the soil.

See the National Forestry Manual, Subpart B for criteria used in rating management concerns.

This subsection includes:
- **(a) Forest Management (one or two tables)**

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
11B:				
Pembroke---------------	black walnut--------	---	0	black walnut,
	hickory-------------	---	0	eastern white
	northern red oak----	85	57	pine, northern red
	sugar maple---------	---	0	oak, shortleaf
	white ash-----------	---	0	pine, white ash,
				white oak
15C:				
Scholten---------------	black oak-----------	45	29	black oak, eastern
	hickory-------------	---	0	redcedar,
	post oak------------	45	29	shortleaf pine
16B:				
Creldon----------------	---	---	---	---
18B:				
Captina----------------	black oak-----------	59	43	black locust, black
	blackjack oak-------	---	0	oak, shortleaf
	post oak------------	51	43	pine
19B:				
Needleye---------------	black oak-----------	60	43	black oak, pin oak,
	blackjack oak-------	---	0	white ash
	post oak------------	---	0	
20B:				
Branson----------------	northern red oak----	70	57	black walnut,
	white oak-----------	66	43	shortleaf pine,
				white oak

Barry County, Missouri
Forest Productivity

| Map symbol and soil name | Potential productivity | | | Trees to manage |
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
21B:				
Claiborne	black oak	66	43	black walnut,
	northern red oak	---	0	northern red oak,
	shortleaf pine	66	100	shortleaf pine,
	white oak	66	43	white oak
22B:				
Britwater	eastern redcedar	50	57	eastern redcedar,
	northern red oak	66	57	northern red oak,
	shortleaf pine	70	114	shortleaf pine,
				white oak
23B:				
Lily	black oak	58	43	northern red oak,
	northern red oak	54	43	shortleaf pine,
	post oak	---	0	white oak
	shortleaf pine	58	86	
	white ash	---	0	
	white oak	---	0	
Ramsey	eastern redcedar	---	0	shortleaf pine
	northern red oak	60	43	
	white oak	61	43	
24A:				
Parsons	---	---	---	---
Barden	---	---	---	---
Carytown	---	---	---	---

| Map symbol and soil name | Potential productivity | | | Trees to manage |
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
26B2:				
Yelton	black oak	---	0	black oak,
	white oak	55	43	shortleaf pine,
				white oak
27E:				
Beemont	eastern redcedar	---	0	eastern redcedar,
	post oak	---	0	shortleaf pine
	white oak	45	29	
28C:				
Beemont	eastern redcedar	---	0	eastern redcedar,
	northern red oak	61	43	northern red oak,
	post oak	---	0	shortleaf pine
	white oak	48	29	
29C:				
Portia	northern red oak	65	43	northern red oak,
	shortleaf pine	72	114	shortleaf pine,
				white oak
30C:				
Keeno	---	---	---	---
31C:				
Waben	black oak	71	57	black oak, black
	black walnut	---	0	walnut, shortleaf
	eastern redcedar	---	0	pine
	northern red oak	66	57	
	shortleaf pine	70	114	
	white oak	66	114	

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
35D:				
Hailey	blackjack oak	---	0	shortleaf pine,
	hickory	---	0	white oak
	northern red oak	61	43	
	post oak	---	0	
	white oak	58	43	
Nixa	black oak	63	43	black locust, black
	blackjack oak	---	0	oak, white ash
	hickory	---	0	
	post oak	---	0	
36D:				
Nixa	black oak	63	43	black locust, black
	blackjack oak	---	0	oak, white ash
	hickory	---	0	
	post oak	---	0	
Clarksville	black oak	61	43	shortleaf pine,
	northern red oak	61	43	white oak
	shortleaf pine	61	86	
	white oak	58	43	
40D:				
Noark	black oak	67	43	black oak, eastern
	eastern redcedar	40	43	redcedar, northern
	northern red oak	66	43	red oak, shortleaf
	shortleaf pine	60	86	pine, white oak
	white oak	64	43	

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
40D: (cont)				
Clarksville-------------	black oak-----------	61	43	shortleaf pine,
	northern red oak----	61	43	white oak
	shortleaf pine------	61	86	
	white oak-----------	58	43	
41E:				
Noark-------------------	black oak-----------	67	43	black oak, eastern
	eastern redcedar----	40	43	redcedar, northern
	northern red oak----	66	43	red oak, shortleaf
	shortleaf pine------	60	86	pine, white oak
	white oak-----------	64	43	
44G:				
Hailey------------------	blackjack oak-------	---	0	shortleaf pine,
	hickory-------------	---	0	white oak
	northern red oak----	61	43	
	post oak------------	---	0	
	white oak-----------	58	43	
Rock outcrop-----------	---	---	---	---
Moko--------------------	eastern redcedar----	30	29	eastern redcedar
45F:				
Clarksville-------------	black oak-----------	61	43	shortleaf pine,
	northern red oak----	61	43	white oak
	shortleaf pine------	61	86	
	white oak-----------	58	43	

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
46G:				
Clarksville-------------	black oak-----------	61	43	shortleaf pine,
	northern red oak----	61	43	white oak
	shortleaf pine------	61	86	
	white oak-----------	58	43	
Rock outcrop-----------	---	---	---	---
Moko-------------------	eastern redcedar----	30	29	eastern redcedar
50C:				
Nixa-------------------	black oak-----------	63	43	black locust, black
	blackjack oak-------	---	0	oak, white ash
	hickory-------------	---	0	
	post oak-----------	---	0	
51B:				
Tonti------------------	black oak-----------	70	43	black locust, black
	post oak-----------	---	0	oak, shortleaf pine, white ash
Scholten---------------	black oak-----------	45	29	black oak, eastern
	hickory-------------	---	0	redcedar,
	post oak-----------	45	29	shortleaf pine
54:				
Dunning----------------	American sycamore---	---	0	American sycamore,
	black willow--------	---	0	baldcypress, pin
	boxelder-----------	---	0	oak, swamp white
	eastern cottonwood--	100	129	oak, sweetgum
	pin oak-------------	95	86	
	swamp white oak-----	---	0	

| Map symbol and soil name | Potential productivity | | | Trees to manage |
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
55:				
Elk	American sycamore	---	0	black walnut, eastern white pine, loblolly pine, northern red oak, shortleaf pine, white ash, white oak
	black walnut	---	0	
	northern red oak	85	57	
	pin oak	96	86	
	red maple	---	0	
Huntington	northern red oak	85	57	black walnut, northern red oak, tuliptree, white oak
61B:				
Hoberg	---	---	---	---
76:				
Racoon	green ash	---	0	baldcypress, pin oak, red maple, water tupelo
	pin oak	80	57	
	post oak	80	57	
	white oak	---	0	
81B:				
Tonti	black oak	70	43	black locust, black oak, shortleaf pine, white ash
	post oak	---	0	
82B:				
Rock outcrop	---	---	---	---
Udorthents	---	---	---	---

| Map symbol and soil name | Potential productivity | | | Trees to manage |
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
83F:				
Moko--------------------	eastern redcedar----	30	29	eastern redcedar
Rock outcrop-----------	---	---	---	---
83G:				
Rock outcrop-----------	---	---	---	---
Moko--------------------	eastern redcedar----	30	29	eastern redcedar
84D:				
Bardley-----------------	black oak-----------	54	43	black oak, eastern
	post oak------------	42	29	redcedar,
	white oak-----------	42	29	shortleaf pine,
				white oak
Moko--------------------	eastern redcedar----	30	29	eastern redcedar
Rock outcrop-----------	---	---	---	---
85D:				
Moko--------------------	eastern redcedar----	30	29	eastern redcedar
Rock outcrop-----------	---	---	---	---
Blueye------------------	blackjack oak-------	---	0	eastern redcedar
	eastern redcedar----	35	29	
	post oak-----------	---	0	
85F:				
Moko--------------------	eastern redcedar----	30	29	eastern redcedar

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
85F: (cont)				
Blueye------------------	blackjack oak-------	---	0	eastern redcedar
	eastern redcedar----	35	29	
	post oak-----------	---	0	
Rock outcrop-----------	---	---	---	---
86D:				
Mano--------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak-----------	58	43	
Gatewood---------------	chinkapin oak-------	---	0	eastern redcedar,
	eastern redcedar----	---	0	shortleaf pine
	white ash-----------	---	0	
	white oak-----------	45	29	
86F:				
Mano--------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak-----------	58	43	
Ocie--------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak-----------	57	43	
87F:				
Moko-------------------	eastern redcedar----	30	29	eastern redcedar
Rock outcrop-----------	---	---	---	---

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
87F: (cont)				
Snead------------------	northern red oak----	64	43	northern red oak,
	sugar maple---------	---	0	shortleaf pine,
	white ash----------	63	57	white ash
	white oak----------	48	29	
88D:				
Blueye-----------------	blackjack oak-------	---	0	eastern redcedar
	eastern redcedar----	35	29	
	post oak-----------	---	0	
Moko-------------------	eastern redcedar----	30	29	eastern redcedar
89D:				
Mano-------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak----------	58	43	
Ocie-------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak----------	57	43	
89F:				
Mano-------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak----------	58	43	
Ocie-------------------	black oak-----------	58	43	northern red oak,
	northern red oak----	---	0	shortleaf pine
	white oak----------	57	43	

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
91B:				
Viraton	black oak	62	43	black oak,
	shortleaf pine	56	86	shortleaf pine,
	white oak	52	43	white oak
92A:				
Secesh	American sycamore	---	0	American sycamore,
	black oak	---	0	black walnut,
	black walnut	---	0	shortleaf pine
	shortleaf pine	---	0	
	white oak	60	43	
93B:				
Waben	black oak	71	57	black oak, black
	black walnut	---	0	walnut, shortleaf
	eastern redcedar	---	0	pine
	northern red oak	66	57	
	shortleaf pine	70	114	
	white oak	66	114	
Cedargap	black oak	66	43	black oak, black
	black walnut	---	0	walnut, northern
	green ash	---	0	red oak
94B:				
Hercules	American sycamore	65	57	black oak, black
	black oak	66	43	walnut, northern
				red oak
96:				
Pits	---	---	---	---
Dumps	---	---	---	---

Barry County, Missouri
Forest Productivity

Map symbol and soil name	Potential productivity			Trees to manage
	Common trees	Site index	Volume of wood fiber	
			cu ft/ac	
M-W:				
Water------------------	---	---	---	---
W:				
Water------------------	---	---	---	---